

EUROPEAN PATENT OFFICE

3

Patent Abstracts of Japan

PUBLICATION NUMBER : 02146143
PUBLICATION DATE : 05-06-90

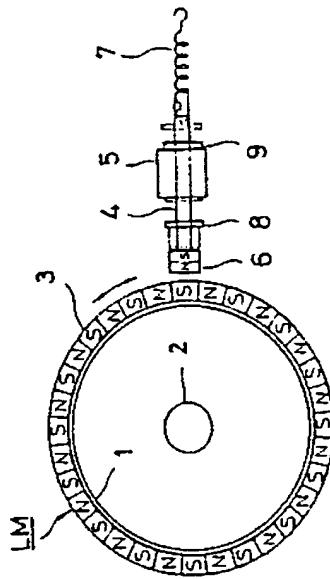
APPLICATION DATE : 10-11-88
APPLICATION NUMBER : 63282393

APPLICANT : RICOH CO LTD;

INVENTOR : SUGANO TETSUO;

INT.CL. : G11B 17/02 H02K 49/10

TITLE : ACTUATOR DEVICE



ABSTRACT : PURPOSE: To suitably lock/unlock an ejecting mechanism, etc., by positioning an actuator at a different position by means of the suction force of a magnetic circuit member and the energizing force of an energizing member caused by the rotating/stopping operation of a motor.

CONSTITUTION: A rotor 1 to rotate by interlocking with the rotation of a motor LM, an actuator 4, which is fitted so as to reciprocatively move in a radial direction, and a coil spring 7, which energizes the actuator 4 in a direction to move away from the rotor 1, are provided. The energizing force of the spring 7 is set at larger than the suction force of permanent magnets 3 and 6 when the rotor 1 rotates, and set at smaller than the suction force when the rotor 1 stops. Consequently, when the motor LM rotates, a stopper 8 of the actuator 4 abuts on a guide 5 to be a turned-on mode, when the motor LM stops, a stopper 8 abuts on the guide 5 to be a turned-off mode. Thus, the ejecting mechanism can be correctly locked and unlocked.

COPYRIGHT: (C)1990,JPO&Japio